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TITLE : COPPER ALLOY EXCELLENT IN ELECTRIC-DISCHARGE WEAR RESISTANCE

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a copper alloy excellent in electric-discharge wear resistance, used for parts causing electric-discharge wear, such as motor commutator and various contacts.

SOLUTION: This copper alloy has a composition consisting of, by weight, 0.1-1.0% Si and the balance copper with inevitable impurities and further containing, if necessary, 0.01-6.0%, in total, of at least one or more kinds among 0.01-1.0% Mg, 0.01-1.0% Al, 0.01-1.0% Ti, 0.01-1.5% Cr, 0.01-1.0% Mn, 0.01-3.0% Fe, 0.01-3.0% Co, 0.01-4.0% Ni, 0.01-5.0% Zn, 0.01-1.0% Zr, 0.01-1.0% Ag, and 0.01-2.0% Sn.

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